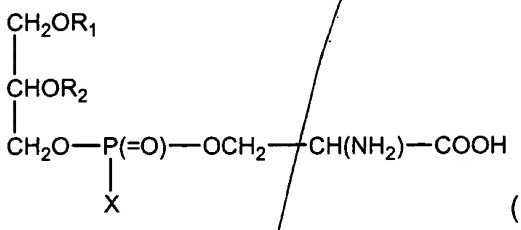
CLAIMS

1. Purifying process for phosphatidylserine having formula (I)



(I)

where R_1 e R_2, identical or different, are a C_{10}-C_{30} acyl group; X is OH or OM, where M is chosen from the group of alkali metals, alkaline-earth metals, ammonium and alkyl ammonium,

and where the serine portion is in D, L or racemic form, and preferably in L form, comprising the extraction of said phosphatidylserines from a solution in a hydrocarbon solvent with a mixture of water and a polar organic solvent.

2. Process according to claim 1, in which said hydrocarbon solvent is chosen among toluene, xilene, n-heptane, n-hexane or cyclohexane.

3. Process according to claim 1, in which said hydrocarbon solvent is used in an amount between 4 and 30 liters/kg of phosphatidylserine to be purified.

4. Process according to claim 3, in which said hydrocarbon solvent is used in an amount between 6 and 12 liters/kg of phosphatidylserine to be purified.

5. Process according to claim 1, in which said polar organic solvent is an alcohol solvent.

6. Process according to claim 5, in which said alcohol solvent is chosen among alcohols containing 1 to 5 carbon atoms.

7. Process according to claim 5, in which said alcohol solvent is chosen among secondary and tertiary alcohols.

8. Process according to claim 5, in which said alcohol solvent is i-propanol.

9. Process according to claim 1, in which said polar organic solvent is used in an amount between 0.2 and 2 liters/kg of hydrocarbon solvent used.

10. Process according to claim 9, in which said polar organic solvent is used in an amount between 0.3 and 1.2 liters/kg of hydrocarbon solvent used.

11. Process according to claim 1, in which the amount of water used is between 0.2 and 5 liters/kg of hydrocarbon solvent used.

12. Process according to claim 11, in which the amount of water used is between 0.3 and 1 liter/kg of hydrocarbon solvent used.

13. Process according to claim 1, in which said extraction is carried out at a temperature between 0 and 70°C.

14. Process according to claim 13, in which said extraction is carried out at a temperature between 20 and 30°C.

15. Process according to claim 1, in which said phosphatidylserines having formula (I) are prepared by trans-phosphatidylation of phosphatidylcholines of natural or synthetic origin.